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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/900,332	07/06/2001	Yutaka Yasui	FUJA 18.796	5621
26304	7590	03/10/2004	EXAMINER	
KATTEN MUCHIN ZAVIS ROSENMAN 575 MADISON AVENUE NEW YORK, NY 10022-2585			BALBAN, SIMEON M	
		ART UNIT	PAPER NUMBER	
		2686		

DATE MAILED: 03/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/900,332	KAWASAKI ET AL.	
	Examiner	Art Unit	
	Simeon Marc Balban	2686	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on _____.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1 - 10 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1 - 10 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____

5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____

DETAILED ACTION

Information Disclosure Statement

1. The submission is in compliance with the provisions of 37 CFR 1.97.

Accordingly, the information disclosure statements are being considered by the examiner.

Priority

2. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 09/900332, filed on 7/06/2001.

Specification

3. The disclosure is objected to because of the following informalities:

In line 14 of page 17 should read "that information"

In line 15 of page 17 should read "not be distributed"

In line 23 of page 17 "steps S308 to S312" should read as "steps S313 to S317"

Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

5. **Claims 1 - 5, 8, and 9** are rejected under 35 U.S.C. 102(b) as being anticipated by Fan et al. (hereafter referred to as Fan) (U.S. Patent Number 6,529,159).

Regarding **claim 1**, Fan discloses a server system (Figure 1) for distributing information to portable mobile information terminals (1, 3) in a specific area, comprising:

a first data base (63) for storing the information of the specific area where the information distribution service is provided to registered users of the portable mobile information terminals (1,3) is disclosed as “In additiondata processing station 18 searches a database 32 and associated area storage 63 to process the operator's query” and “Area map storage 63 stores area maps with position markers indicating the mobile units and landmarks” (see Figure 2 and column 4 lines 48 – 67 and column 5 lines 20 - 22)” This directly reads upon the claim of a first database for storing information of the specific area.

Fan discloses “In additiondata processing station 18 searches a database 32 and associated area storage 63 to process the operator's queryDatabase 32 maintains such travel-related information as maps, traffic situation in a particular area, positions of service stations and destinations of interest.....” and “Services based on the position of a mobile unit can be easily provided in the system described above.....Alternatively, useful information can be supplied by data processing station 18 or another server to mobile unit 1 according to mobile unit 1's position. FIG. 14 shows a model for distributing location-relevant information to a mobile unit. As shown in FIG. 14, a “field client” 1401, such as mobile unit 1,....., communicates with a network gateway (e.g. wireless network service connection 10) to access over the

Internet 1403 to a server 1404 (e.g., data processing station 18). Using the methods discussed above, the position of field client 1401 is communicated to server 1404. Based on this position, server 1404 can provide field client 1401 with information relevant to field client 1401's position, either upon request by field client 1401 or on servers 1404's own initiative. Such location-relevant information includes advertising of businesses local to field client 1401's position.....(see Figures 2, 14 and column 4 lines 48 - 67, column 12 lines 14 - 42), which reads on "a second database (32) for storing prepared information to be distributed and distribution conditions provided by an information provider";

Fan further discloses "Position table 33 stores the last known measured positions of the mobile units in the system.....Position table 33 contains the measured position of several mobile units, identified respectively by an identification number 160, at particular times 162. The measured position of each mobile unit is represented by time stamp 162, a measured latitude value 165, a measured longitude value 168, and a velocity 170" and "Services based on the position of a mobile unit can be easily provided in the system Mobile unit 1 can request for information to be supplied based on its position....." (see Figure 7, 14 and column 5 lines 1 – 10, column 12 lines 14 - 21), which reads on "a third database (33) for storing the registered users and the conditions for receiving the distributed information;"

Fan further discloses "Data network 27 can be a wide area data network, such as the Internet, or a telephone network, including wired or wireless communications, or both....." (see Figure 1 and column 5 line 66 - column 6 lines 18), which reads directly

on "means for receiving (27) position information from the portable mobile information terminals of said registered users."

Fan further discloses "FIG. 2 illustrates data processing station 18....If data processing station 18 receives an outbound data package that includes a measured position of the mobile unit....., the measured position is entered into position table 33 (FIG. 2." and "In addition to computing the corrected measured position, data processing station 18 searches a database 32 and associated area storage 63 to process the operator's query received in the outbound data package." and "Area map storage 63 stores area maps with position markers indicating the mobile units and landmarks." (see Figure 2 and column 3 lines 53 – 63, column 4 lines 48 – 51, column 5 lines 20 -22) reads directly on "determining means for determining whether said received position information is located in a specified area stored in said first database 63;"

In addition, Fan discloses "Data network 27 can be a wide area data network, such as the Internet, or a telephone network, including wired or wireless communications.....Service connection 10 can be a commercial transceiver station such as a cellular phone transceiver station..." (see Figure 1 and column 5 line 66 – column 6 line 18) which directly reads on "information distribution means (27) for distributing the prepared information satisfying the distribution conditions stored in said second database (32) and the receiving conditions of said users stored in said third database (33), to the portable mobile information terminals (1, 3) of said users determined by said determining means (18) to be located in said area."

Regarding **claim 2**, Fan discloses a server system (Figure 1) as set forth in **claim 1**, further comprising “area determining means (18) for illustrating said specific area using a simple figure, and storing said figure in said first database (63) as area information indicated by the latitude and longitude;” which is disclosed by “Upon receiving the outbound data package, data processing station 18 responds to operator’s query by searching database 32, updating a map retrieved from map storage 63, and transmitting the map to mobile unit 1 an inbound data package” and “Area map storage 63 stores area maps with position markers indicating the mobile units and landmarks....a map including the measured position....and the position of the destination.....” and “Position table 33 stores the last known measured positions of the mobile units....The measured position of each mobile unit is represented by, a measured latitude value 165, a measured longitude value 168.....” (see Figure 2 and column 7 lines 52 – 56, column 5 lines 20 – 28, column 5 lines 1 - 11).

In addition, Fan discloses “FIG. 2 illustrates data processing station 18 of the present invention, including data process unit 38 which handles computation at data processing station 18. If data processing station 18 receives an outbound data package that includes a measured position of the mobile unit...., the measured position is entered into position table 33 (FIG. 2). If the outbound data package includes pseudo-ranges, however, data processing station 18 obtains the measured position of the mobile unit for position table 33 by applying a triangulation technique on the psedo-ranges.” and “In addition to computing the corrected measured position, data processing station 18 searches a database 32 and associated area storage 63 to

process the operator's query received in the outbound data package." and "To formulate the response, the data processing program uses the measured position of the requesting mobile unit and other relevant positional information. The response is returned in an inbound data package to the requesting mobile unit..." (see Figure 2 and column 3 lines 53 – 63, column 4 lines 48 – 51, and column 9 lines 31 - 35) which directly reads on the claim "wherein said determining means (18) uses the position information received from said portable mobile information terminals (1, 3) for said determination."

Regarding **claim 3**, Fan discloses a server system (Figure 1) as described in **claim 1**, wherein said position information received from said portable mobile information terminals (1, 3) is the latitude/longitude information of said portable mobile information terminals (1, 3)." which is disclosed by "Position table 33 stores the last known measured positions of the mobile units....The measured position of each mobile unit is represented by, a measured latitude value 165, a measured longitude value 168....." (see Figure 7 and column 5 lines 1 – 10)

Regarding **claim 4**, Fan discloses a server system (Figure 1) as described in **claim 3**, "further comprising area determining means (18) for illustrating said specific area using a simple figure, and storing said figure in said first database (63) as area information indicated by the latitude and longitude;" which is disclosed by "Area map storage 63 stores area maps with position markers indicating the mobile units and landmarks....a map including the measured position.....and the position of the destination....." and "Position table 33 stores the last known measured positions of the

mobile units....The measured position of each mobile unit is represented by, a measured latitude value 165, a measured longitude value 168....." (see Figure 2 and column 5 lines 20 – 28, column 5 lines 1 - 11).

Fan further discloses "FIG. 2 illustrates data processing station 18 of the present invention, including data process unit 38 which handles computation at data processing station 18. If data processing station 18 receives an outbound data package that includes a measured position of the mobile unit...., the measured position is entered into position table 33 (FIG. 2). If the outbound data package includes pseudo-ranges, however, data processing station 18 obtains the measured position of the mobile unit for position table 33 by applying a triangulation technique on the psedo-ranges." and "In addition to computing the corrected measured position, data processing station 18 searches a database 32 and associated area storage 63 to process the operator's query received in the outbound data package." and "To formulate the response, the data processing program uses the measured position of the requesting mobile unit and other relevant positional information. The response is returned in an inbound data package to the requesting mobile unit..." (see Figure 2 and column 3 lines 53 – 63, column 4 lines 48 – 51, and column 9 lines 31 - 35), which directly reads on "wherein said determining means (18) uses said latitude/longitude information received from said portable mobile information terminals (1, 3) for said determination."

Regarding **claim 5**, Fan discloses a server system (Figure 1) as described in **claim 3**, "wherein said latitude/longitude information is given by the portable mobile information terminals (1, 3) having a GPS receiver" which is disclosed as "Mobile units 1

and 3 each include a GPS receiver" and "Position table 33 stores the last known measured positions of the mobile units....The measured position of each mobile unit is represented by, a measured latitude value 165, a measured longitude value 168....." (see Figure 7 and column3 lines 2 – 3, column 5 lines 1 – 11).

Regarding **claim 8**, Fan discloses a server system (Figure 1) as described in **claim 1**, "further comprising registration/canceling/change means for executing, by communication with each of said portable mobile information terminals (1, 3), the registration/canceling procedure for the user registration of the portable mobile information terminal (1, 3) and the registration/change procedure for the receiving conditions of said user stored in the said third database (33)." which is disclosed by "As shown in FIG. 14, a "field client" 1401, such as mobile unit 1,....., communicates with a network gateway (e.g. wireless network service connection 10) to access over the Internet 1403 to a server 1404 (e.g., data processing station 18). Using the methods discussed above, the position of field client 1401 is communicated to server 1404. Based on this position, server 1404 can provide field client 1401 with information relevant to field client 1401's position, either upon request by field client 1401 or on servers 1404's own initiative." and discloses "FIG. 2 illustrates data processing station 18 of the present invention, including data process unit 38 which handles computation at data processing station 18. If data processing station 18 receives an outbound data package that includes a measured position of the mobile unit...., the measured position is entered into position table 33 (FIG. 2). If the outbound data package includes pseudo-ranges, however, data processing station 18 obtains the measured position of the

mobile unit for position table 33 by applying a triangulation technique on the psedo-ranges." and "In addition to computing the corrected measured position, data processing station 18 searches a database 32 and associated area storage 63 to process the operator's query received in the outbound data package." and "Position table 33 stores the last known measured positions of the mobile units...**FIG. 7** represents one implementation of position table 33. Position table 33 contains the measured position of several mobile units, identified respectively by an identification number **160**, at particular times **162**. The measured position of each mobile unit is represented by, a measured latitude value **165**, a measured longitude value **168.....**" (see Figures 2, 7, 14 and column 12 lines 22 – 32, column 3 lines 53 – 63, column 9 lines 31 – 35, and column 5 lines 1 - 11) The identification number (160) of the mobile unit constitutes the registration of the mobile unit.

Regarding **claim 9**, Fan discloses a server system (Figure 1) as described in **claim 1**, "further comprising "receiving means (27) for receiving the distributed information and the conditions for information distribution provided by said sponsor and storing said information and said receiving conditions in said second database (32)." which is disclosed by "In addition to computing the corrected measured position, data processing station 18 searches a database 32 and associated area storage 63Database 32 maintains such travel-related information as maps, traffic situation in a particular area, positions of service stations ad destinations of interest....Data processing unit 38 accesses database 32" and "As shown in FIG. 14, a "field client" **1401**, such as mobile unit 1,....., communicates with a network gateway (e.g. wireless

network service connection 10) to access over the Internet 1403 to a server 1404 (e.g., data processing station 18). Using the methods discussed above, the position of field client 1401 is communicated to server 1404. Based on this position, server 1404 can provide field client 1401 with information relevant to field client 1401's position, either upon request by field client 1401 or on servers 1404's own initiative. Such location-relevant information includes advertising of businesses local to field client 1404's position, discount coupons to be used at local businesses, schedule of events of local interest, tourist information.....In addition, even on a global inquiry of a merchandise or service, server 1404 can provide client 1401 responsive information relevant to the client 1401's location. For example, a request for a hair dresser should return a list of hair dressers within local reach and not across the continent." (see Figures 2, 14 and column 4 lines 48 – 67, column 12 lines 22 – 42)

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. **Claims 6, 7** are rejected under 35 U.S.C. 103(a) as being unpatentable over Fan. (U.S. Patent Number 6,529,159), in view of Kawamoto (U.S. Patent Number 6,584,320).

Regarding **claim 6**, Fan discloses a server system (Figure 1) as described in **claim 1** (see **claim 1**). Fan discloses the use of base stations in the data network (27) as disclosed “Service connection 10 can be a commercial transceiver station such as a cellular phone transceiver station...” (see Figure 1 and column 6 lines 14 – 18) However, Fan fails to specifically disclose “said position information received from said portable mobile information terminals is the information on the base station of a radio area where each of said portable mobile information terminals is existent.” However, the determination of position location based on the position of the base station located in the mobile information terminals area was well known in the art, as taught by Kawamoto.

In the same field of endeavor, Kawamoto discloses the use of a base station to determine the position location of a mobile terminal, “In PHS, as shown in FIG. 5, base stations 21 are disposed on every cover area having a radius of about 100 m. Each of base stations 21 transmit/receives radio waves to and from portable remote terminal 20 situated in the relevant cover area and conducts communication therewith. Accordingly, when a portable remote terminal 20 forms a communication link with a predetermined base station 21, it can be assumed that portable remote terminal 20 situates within the cover area of the above-mentioned base station 21. Then as shown in FIG. 6, if correspondence between the ID number for each of base stations (identification for identifying the base station) and a cover area are (position) thereof is previously stored as a table in RAM 113 of server 25, server 25 can detect, when receiving the ID number of the base station from portable remote terminal 20, can detect the cover area (present

position for portable remote terminal **20**) based on the ID number. For instance, in the example shown in FIG. 6, assuming the ID number for base station **21** as **0002**, it can be judged that portable remote terminal **20** situates within a range of North latitude.....and of East longitude....." (see Figures 5, 6 and column 5 line 57 - column 6 line 11)

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to modify Fan, with its server system and its base stations, with the capability of determining the position of the portable remote terminal based on the ID of the mobile's corresponding base station, for the purpose of adding a means for determining the position of remote terminals lacking a GPS receiver.

Regarding **claim 7**, Fan and Kawamoto, disclose everything claimed as applied above (see **claims 6 and 2**).

8. **Claim 10** is rejected under 35 U.S.C. 103(a) as being unpatentable over Fan. (U.S. Patent Number 6,529,159), in view of Sheynblat et al. (Hereafter referred to as Sheynblat) (U.S. Patent Number 6,584,320).

Regarding **claim 10**, Fan discloses a server system (Figure 1) as described in **claim 1** which discloses a means for receiving the response of a registered user to the distributed information. (see **claim 1**). However, Fan fails to specifically disclose "recording and statistically processing said response, and managing and maintaining the result of said process." However, recording and statistically processing said response, and managing and maintaining the result of said process was well known in the art, as taught by Sheynblat.

In the same field of endeavor, Sheynblat discloses recording and statistically processing said response, and managing and maintaining the result of said process, "In addition....location-based information shown above in Table 1, may be provided to mobile GPS receivers and/or other clients by the Web server **118**, which is shown coupled to the communication network **112**....." and "In one embodiment, the Web server **118**.....may use the location of the mobile GPS receiver to derive representations (e.g. charts, graphs, etc.) of cellular use demographics, such as time and place of calls, location-based and/or time-based distributions, etc., which representations and data may be provided to cellular carriers.....government agencies, Web users, etc. Furthermore, the Web server **118** may display (e.g., on a map) the location of various mobile GPS clientsSuch information may be useful for advertising, customer/user profiles, location-targeted marketing, location based billing, etc....." (see Table 1 and column 19 lines 30 – 50, column 20 lines 15 – 31)

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to modify Fan, with its server system and web access, with the capability of recording and statistically processing said response, and managing and maintaining the result of said process, for the purpose of target marketing of location based information.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Simeon Marc Balban whose telephone number is (703) 305-8731. The examiner can normally be reached on M - F 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D Banks - Harold can be reached on (703) 305-4379. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

MB

Marsha D. Banks-Harold
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